Ka Band Parabolic Deployable Antenna (KaPDA) for Interplanetary CubeSat Communications



Completed Technology Project (2013 - 2017)

Project Introduction

This task will develop a prototype 0.5 m Diameter Ka Band Parabolic Deployable Antenna (KaPDA) for Interplanetary CubeSat Communications.

Ka Band Parabolic Deployable Antenna (KaPDA) for Interplanetary CubeSat Communications allowing moving up from UHF, S or X to get higher gain for a given diameter.

Anticipated Benefits

Increased science return

Increased competitiveness and data return for smallsats

Increased data return for smallsats

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Туре	Location
	Lead	NASA	Pasadena,
	Organization	Center	California



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Table of Contents

Project Introduction	1
Anticipated Benefits	1
Primary U.S. Work Locations	
and Key Partners	1
Organizational Responsibility	2
Project Management	2
Technology Maturity (TRL)	2
Technology Areas	3



Center Independent Research & Development: JPL IRAD

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Primary U.S. Work Locations

California

Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

Center Independent Research & Development: JPL IRAD

Project Management

Program Manager:

Fred Y Hadaegh

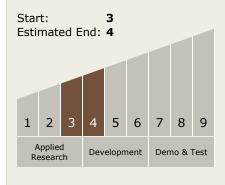
Project Manager:

Jonas Zmuidzinas

Principal Investigator:

Mark W Thomson

Technology Maturity (TRL)





Center Independent Research & Development: JPL IRAD

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Technology Areas

Primary: